

Please add the following new claims:

13. (New) A rotary actuator, comprising:
a permanently magnetized rotor;
a plurality of stator windings surrounding the permanently magnetized rotor in a rim-like fashion and for generating a magnetic field, the stator windings placing the permanently magnetized rotor in one of a first plurality of positions;
an arrangement for exerting a corrective torque on the permanently magnetized rotor, the arrangement for exerting the corrective torque, in a currentless state of the stator windings, placing the permanently magnetized rotor in a target position of a second plurality of positions, each position of the first plurality of positions having assigned thereto a corresponding one of the second plurality of positions as the target position; and
a network having n inputs and m outputs, n being a number of the first plurality of positions and m being a number of the stator windings, wherein:
each one of the stator windings is connected to one of the m outputs, and
the network distributes to the stator windings a current applied at one of the n inputs in order to set one of the first plurality of positions that is assigned to a respective one of the n inputs.
14. (New) The rotary actuator according to claim 13, wherein:
the permanently magnetized rotor includes a magnet that is aligned so as to be perpendicular to a rotational axis.
15. (New) The rotary actuator according to claim 13, wherein:
the stator windings are arranged so as to be unpaired.
16. (New) The rotary actuator according to claim 13, wherein:
the stator windings are uniformly distributed around a rotational axis in a circumferential direction.

17. (New) The rotary actuator according to claim 13, further comprising:
a ring core surrounding the permanently magnetized rotor and on which the stator windings are arranged.
18. (New) The rotary actuator according to claim 13, wherein:
the number m of the stator windings is smaller than the number n of the first plurality of positions.
19. (New) The rotary actuator according to claim 13, wherein:
the arrangement for exerting the corrective torque includes a plurality of permanent magnets.
20. (New) The rotary actuator according to claim 13, wherein:
a resistance of all n inputs is the same.
21. (New) The rotary actuator according to claim 13, wherein:
the stator windings include three stator windings, and
the plurality of first positions includes four first positions.
22. (New) The rotary actuator according to claim 13, wherein:
adjoining target positions have an angular distance of 45° .
23. (New) A rotary switch, comprising:
a rotary actuator that includes:
a permanently magnetized rotor;
a plurality of stator windings surrounding the permanently magnetized rotor in a rim-like fashion and for generating a magnetic field, the stator windings placing the permanently magnetized rotor in one of a first plurality of positions;
an arrangement for exerting a corrective torque on the permanently magnetized rotor, the arrangement for exerting the corrective torque, in a currentless state of the stator windings, placing the permanently magnetized rotor in a target position of a second